

# Contents of Volume 58

## Number 1

- 1 The Cassini mission probabilistic risk analysis: comparison of two probabilistic dynamic methodologies  
S. SWAMINATHAN, J.-Y. VAN-HALLE, C. SMIDTS, A. MOSLEH, S. BELL, K. RUDOLPH,  
R. J. MULVIHILL & B. BREM (USA)
- 15 Reliability analysis of  $K$ -out-of- $N$ :  $G$  systems with dependent failures and imperfect coverage  
M. S. MOUSTAFA (Egypt)
- 19 Failure rate behavior of components subjected to random stresses  
O. GAUDOIN & J.-L. SOLER (France)
- 31 Dynamic reliability behavior for sliding wear of carburized steel  
K. S. WANG, C. S. CHEN & J. J. HUANG (ROC)
- 43 Asymptotic poisson distribution for the number of system failures of a monotone system  
T. AVEN & H. HAUKÅS (Norway)
- 55 State-age-dependent maintenance policies for deteriorating systems with erlang sojourn time distributions  
RUEY HUEI YEH (ROC)
- 61 A useful framework for optimal replacement models  
T. AVEN (Norway) & R. DEKKER (The Netherlands)
- 69 The failure intensity process and the formation of reliability and maintenance models  
P. HOKSTAD (Norway)
- 83 Calendar

## Number 2

### Special Issue ESREL '95

- 87 Editorial
- 89 New approaches to evaluating fault trees  
R. M. SINNAMON & J. D. ANDREWS (UK)
- 97 The analysis of failure data in the presence of critical and degraded failures  
K. HAUGEN, P. HOKSTAD & H. SANDTORV (Norway)
- 109 Procedures and applications to enlarge the level 1+ PSA to internal fires in German nuclear power plants  
H. P. BERG, G. BREILING & H. H. HOFFMAN (Germany)

- 119 Maintenance optimisation from a decision theoretical point of view  
J. VATN (Norway)
- 127 Exact and truncated computations of prime implicants of coherent and non-coherent fault trees within aralia  
A. RAUZY & Y. DUTUIT (France)
- 145 An approach to the application of subjective probabilities in level 2 PSAs  
M. L. ANG & N. E. BUTTERY (UK)
- 157 Comparative evaluation of maintenance performance using subsurvial functions  
J. PAULSEN (Denmark), R. COOKE (The Netherlands) & R. NYMAN (Sweden)
- 165 Practical aspects of modelling of repairable systems data using proportional hazards models  
J. I. ANSELL & M. J. PHILLIPS (UK)
- 173 Reliability methods as management tools: dependence modelling and partial mission success  
T. BEDFORD & R. M. COOKE (The Netherlands)
- 181 Calendar

**Number 3**

- 185 System reliability prediction using data from non-identical environments  
B. BERGMAN & M. RINGI (Sweden)
- 191 A study of replacement policy for components in a mechanical system  
K.-S. WANG, Y.-T. TSAI & C.-H. LIN (Republic of China)
- 201 Reliability estimation of semi-Markov systems: a case study  
B. OUHBI & N. LIMNIOIS (France)
- 205 Hybrid fault tree analysis using fuzzy sets  
C.-T. LIN & M.-J. J. WANG (Taiwan)
- 215 Computational efficiency of the continuous cell-to-cell mapping technique as a function of integration schemes  
B. TOMBUYES (Belgium) & T. ALDEMIR (USA)
- 225 Epistemic uncertainty and stochastic time reliability correlations  
E. M. DOUGHERTY & M. A. STUTZKE (USA)
- 233 A framework for the analysis of cognitive reliability in complex systems: a recovery centred approach  
T. KONTOGIANNIS (Greece)
- 249 Human-centered modeling in human reliability analysis: some trends based on case studies  
F. MOSNERON-DUPIN (France), B. REER (Germany), G. HESLINGA (The Netherlands), O. STRÄTER (Germany), V. GERDES (The Netherlands), G. SALIOU (France) & W. ULLWER (Germany)
- 275 A probabilistic methodology for the design of radiological confinement of tokamak reactors  
R. P. GOLINESCU, F. MOROSAN & M. S. KAZIMI (USA)
- 297 Calendar
- 299 Contents of Volume

